UL 9

Underwriters Laboratories Inc.

Standard for Safety

Fire Tests of Window Assemblies



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UL Standard for Safety for Fire Tests of Window Assemblies, UL 9

Eighth Edition, Dated July 2, 2009

Summary of Topics

This eighth edition of the Standard for Fire Tests of Window Assemblies, UL 9, has been issued to reflect the latest reaffirmation of ANSI approval. No changes have been made to the requirements within this Standard.

As indicated on the title page (page 1), this UL Standard for Safety is an American National Standard. Attention is directed to the note on the title page of this Standard outlining the procedures to be followed to retain the approved text of this ANSI/UL Standard.

As indicated on the title page (page1), this UL Standard for Safety has been adopted by the Department of Defense.

The UL Foreword is no longer located within the UL Standard. For information concerning the use and application of the requirements contained in this Standard, the current version of the UL Foreword is located on ULStandardsInfoNet at: http://ulstandardsinfonet.ul.com/ulforeword.html

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New product submittals made prior to a specified future effective date will be judged under all of the requirements in this Standard including those requirements with a specified future effective date, unless the applicant specifically requests that the product be judged under the current requirements. However, if the applicant elects this option, it should be noted that compliance with all the requirements in this Standard will be required as a condition of continued Listing and Follow-Up Services after the effective date, and understanding of this should be signified in writing.

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This Standard consists of pages dated as shown in the following checklist:

Page	Date
1-14	July 2, 2009
A1-A2	July 2, 2009
B1-B2	July 2, 2009

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Standard for Fire Tests of Window Assemblies

Previous numbered and unnumbered editions of standards covering this material have been published since 1903.

First Edition – June, 1962
Second Edition – November, 1970
Third Edition – October, 1974
Fourth Edition – August, 1979
Fifth Edition – June, 1989
Sixth Edition – October, 1994
Seventh Edition – April, 2000

Eighth Edition

July 2, 2009

This ANSI/UL Standard for Safety consists of the Eighth Edition.

The most recent designation of ANSI/UL 9 as a Reaffirmed American National Standard (ANS) occurred on July 2, 2009. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, Title Page, or effective date information.

The Department of Defense (DoD) has adopted UL 9 on June 27, 1989. The publication of revised pages or a new edition of this Standard will not invalidate the DoD adoption.

Comments or proposals for revisions on any part of the Standard may be submitted to UL at any time. Proposals should be submitted via a Proposal Request in UL's On-Line Collaborative Standards Development System (CSDS) at http://csds.ul.com.

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Standard Time-Temperature Curve for Control of Fire Tests

APPENDIX B

Requirements for Thermocouple Pads

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INTRODUCTION

1 Scope

1.1 These methods of fire tests are applicable to window assemblies, including glass block and other light transmitting assemblies, for use in the protection of openings in vertical fire resistive assemblies.

1.2 Assemblies classified in accordance with this standard provide only limited protection from the transmission of heat. This standard provides guidance to measure the heat flux emitted through the test specimen during the fire exposure and temperatures on the unexposed surface.

1.3 Tests made in conformity with these test methods shall not be construed as determining suitability of window assemblies for continued use after fire exposure.

1.4 These methods are intended to evaluate the ability of a window or other light transmitting assembly to remain in an opening during a predetermined test exposure.

1.5 The tests expose a specimen to a standard fire exposure controlled to achieve specified temperatures throughout a specified time period, followed by the application of a specified standard fire hose stream. The exposure, however, may not be representative of all fire exposure conditions, which may vary with changes in the amount, nature, and distribution of fire loading; ventilation; compartment size and configuration; and heat sink characteristics of the compartment. It does, however, provide a relative measure of fire performance of window assemblies under these specified exposure conditions.

1.6 This standard defines two pressure conditions for the control of the furnace during the fire exposure. One pressure condition is identified as a positive pressure condition and one is identified as a neutral pressure condition.

1.7 Any variation from the construction or conditions that are tested may substantially change the performance characteristics of the assembly.

1.8 These methods do not provide the following:

a) Full information as to performance of all window assemblies in walls constructed of materials other than tested.

b) Evaluation of the degree by which the window assembly contributes to the fire hazard by generation of smoke, toxic gases, or other products of combustion.

c) Measurement of the degree of control or limitation of smoke or products of combustion passage through the window assembly.

These methods permit loss of glass lights and through openings, provided such loss and openings do not exceed specified limits.

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